

University of New Orleans Course Syllabus PHYS 1065-001 Spring Session 2010

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Office hours: Thu 12:00PM to 1:00PM,
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Meeting Times and Locations: PHYS 1065-001 meets from 1:00PM to 3:00PM, on Wednesday, in SC 1079.

Catalog Description and Prerequisite: PHYS 1065, General Physics Laboratory, 1 credit. A two-hour laboratory to accompany PHYS 1062. Prerequisite is credit or registration in PHYS 1062.

Textbook and Supplies: *UNO PHYS 1065 Lab Manual*, by Patricia Robbert, Garret Wassermann, and Elaina Rodriguez (2010) is required for this course. The manual can be purchased from www.lulu.com. Please order the manual as soon as possible so that it can be shipped to you in time for the second laboratory session. The manual for the first laboratory session is available on Blackboard and should be printed out prior to the first laboratory period. A scientific or graphing calculator is needed for this class.

Blackboard: UNO's web-based course information system is used in this course to make grades, course documents, information, and announcements available to you. You can access it from UNO's home page, <http://www.uno.edu>.

Student Email: Be sure that you have regular access to your UNO email account. This is the method that I will use to contact you.

Attendance and Tardiness: Attendance is required. Laboratory is all about doing, so if you are not present to engage in the laboratory experience, you do not get credit. Be sure to sign the attendance sheet every day when you come in. Have your instructor review and initial your data sheet before leaving lab. This document is to be turned in with your written lab report. There are no make-up labs. The lowest lab report grade and quiz grade are dropped; if you are absent for one class and earn a zero, this will be the grade that is dropped. You are expected to report to class on time. If you are tardy, you will miss the quiz that is given at the beginning of class. You may also lose credit on your lab report based on not being present for the entire laboratory activity.

Quizzes: Each laboratory period begins with a three to five minute quiz. You are expected to prepare for lab by reading the lab manual for that session and familiarizing yourself with the theory and basic procedure. There are no make-up quizzes. If you are late for class you will miss the quiz and earn a zero for the quiz grade.

Participation: You will work together in small groups (2 – 4 people) to complete each lab. The lab will consist of performing an experiment and gathering data to test a hypothesis or explore a physics concept. The experimental procedure is in the lab manual and all needed equipment will be provided. You are encouraged to discuss the activity with your team mates and to ask your instructor questions during class. When you have completed collecting data, have the instructor review your data and initial your data sheet. The written lab report is due at the beginning of the next class and should include the initialed data sheet. If your lab manual has a separate homework section, that is also due at the beginning of the next class. The lab report and homework should be stapled together. All members of the team are expected to share in the activity and discussion of the lab. Points will be deducted from the lab report grades of a team if all members are not participating. You are expected to leave your lab station neat and orderly. You are expected to take proper care of the equipment that is issued to you. Any reckless damage to equipment will result in a grade reduction.

Final Exam: There will be a final exam on the last day of class. Your instructor will give you guidance in terms of preparing for this exam.

Grading System:

Lab reports count for 80% of the course grade, quizzes 10%, and the final exam 10%.

Late assignments may be turned in up to one week late, and can receive up to half credit. After one week, a grade of zero will be given for the assignment. There is no extra credit work.

Final letter grades are based on the following grading scale: **A**, work of the highest degree of excellence (90 – 100%); **B**, work of a high degree of excellence (80 – 89%); **C**, satisfactory work (70 – 79%); **D**, passing but marginal work (60 – 69%); **F**, work failed (below 60%).

Learning Objectives: After successfully completing this course, students will be able to design an experiment to test a hypothesis, conduct various types of measurements, apply basic statistical analyses to data, and identify different types of experimental error; students will also demonstrate an enhanced understanding of the concepts covered in the corresponding lecture course.

Accommodations for Special Needs Students: It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities are encouraged to contact their instructors and/or the Office of Disability Services to discuss their individual needs for accommodations.

Academic Dishonesty Policy: Students are expected to conduct themselves according to the principles of academic integrity as defined in the statement on Academic Dishonesty in the UNO Judicial Code. Any student or group found to have committed an act of academic dishonesty shall have their case turned over to Judicial Affairs for disciplinary action which may result in penalties as severe as indefinite suspension from the University. Academic dishonesty includes, but is not limited to: cheating, plagiarism, fabrication, or misrepresentation, and being an accessory to an act of academic dishonesty.

Learning Objectives: After successfully completing this course, students will be able to conduct an experiment to test a hypothesis, perform various types of measurements, apply basic statistical analyses to data, and identify different types of experimental error; students will also demonstrate an enhanced understanding of the concepts covered in the corresponding lecture course

Class Schedule: 1065-001 Spring 2010

Week 1	1/13/2010	Geiger Counter
Week 2	1/20/2010	Specific and Latent Heats
Week 3	1/27/2010	Boyles Law
Week 4	2/3/2010	Electric and Magnetic Fields
Week 5	2/8/2010	Ohms Law
Week 6	2/17/2010	Wheatstone Bridge
Week 7	2/24/2010	Oscilloscope
Week 8	3/3/2010	Tangent Galvanometer
Week 9	3/10/2010	Plancks Constant
Week 10	3/17/2010	Electro Magnetic Induction
Week 11	3/24/2010	Ray Tracing
Week 12	3/31/2010	Holiday
Week 13	4/7/2010	Thin Lenses
Week 14	4/14/2010	Prism Spectrometer
Week 15	4/21/2010	Diffraction Grating
Week 16	4/28/2010	Final Exam

